Derek Ni

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https://derekni.com | https://github.com/derekni

EDUCATION

Cornell University Ithaca, NY

B.S. Computer Science, GPA: 4.13

Expected May 2022

Courses: Object Oriented Programming and Data Structures, Discrete Structures, Functional Programming, Intro to Backend Development, Multivariable Calculus, Linear Algebra, Basic Probability and Statistics

Thomas Jefferson High School for Science and Technology

Alexandria, VA

GPA: 4.48 (weighted), 3.88 (unweighted); SAT: 1580/1600

Graduated June 2019

Webmaster of Mobile Apps Club, Captain of Varsity Tennis Team, National AP Scholar, National Merit Finalist

WORK EXPERIENCE

MITRE Corporation

McLean, VA

Software Engineer Intern

May 2020 - August 2020

- Automated testing of synthetic audio ML models using shell scripts, Amazon Transcribe and SCLite
- Improved ML models by creating spreadsheets from data evaluations to cherry-pick training data
- Generated synthetic images using WGANs, LSGANs, and DCGANs training on the CIFAR-10 dataset

Cornell University Ithaca, NY

CS 2110 Consultant

August 2020 - Present

- Hosted weekly office hours to help students with object-oriented programming concepts
- Graded and gave feedback on coding assignments, quizzes and exams

PERSONAL PROJECTS

TaskTime | Swift, XCode

- Productivity app to motivate users to complete to-dos and keep healthy habits
- Identified student procrastination problem and developed an app using a points system as a solution

Johnny Jumper | JavaScript, Phaser

- A 2D mobile jump game where the player jumps on platforms to reach the sky
- Optimized by creating sub-maps instead of one large map and reducing tile layers

Jimmy Jumper | C#, Unity

- A 3D mobile runner game where the player runs and jumps on platforms in the sky
- Modified physics to improve gameplay and optimized by creating and destroying objects as needed

ORGANIZATIONS

Cornell ACSU Ithaca, NY

Academic Officer

October 2019 - Present

- Organized academic events for students interested in computer science
- Led collaboration with Cornell AppDev to increase outreach with an iOS workshop

Southgate GIVE Reston, VA

Center Manager

September 2015 - June 2019

- Managed volunteer tutoring program targeted towards elementary schoolers
- Advertised through social media, emails and partnerships with local elementary schools

SKILLS & INTERESTS

Skills: Python, Java, C#, Swift, JavaScript, OCaml, HTML and SQL

Interests: Reading, tennis, piano, podcasts and running